

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 November 2001 (15.11.2001)

PCT

(10) International Publication Number
WO 01/86640 A3

(51) International Patent Classification: H04N 5/76,
7/00, 5/225

(21) International Application Number: PCT/US01/14782

(22) International Filing Date: 8 May 2001 (08.05.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 09/566,436 8 May 2000 (08.05.2000) US

(71) Applicant: MINDS@WORK [US/US]; 15550 Rockfield
Blvd. #C, Irvine, CA 92618 (US).

(72) Inventors: PALATOV, Dennis; 1315 S.W. Rivington
Drive, Portland, OR 97201 (US). RECEK, Steve, E.;

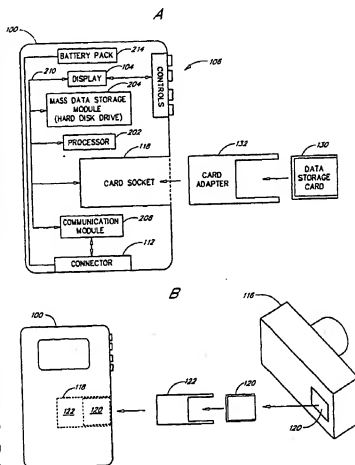
22741 Via Octavo, Mission Viejo, CA 92691 (US). BAJC,
Michael; 27091 Via Callado, Mission Viejo, CA 92691
(US).

(74) Agent: ALTMAN, Daniel, E.; Knobbe, Martens, Olson
and Bear, LLP, 620 Newport Center Drive, 16th Floor,
Newport Beach, CA 92660 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AT
(utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility
model), DK, DK (utility model), DM, DZ, EE, EE (utility
model), ES, FI, FI (utility model), GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK
(utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
YU, ZA, ZW.

[Continued on next page]

(54) Title: HANDHELD PORTABLE INTERACTIVE DATA STORAGE DEVICE



(57) Abstract: A portable interactive data storage device (100) is configured to function as a data repository for small form factor data storage cards (120), such as flash memory PC cards or CompactFlash cards. The storage device includes a disk drive (204), a processor (202), a USB port (126), and a data storage card slot (118). The device also includes a small liquid crystal matrix display (104) and a small number of user controls (106). The device is configured for data storage, rather than as a small general purpose computer, and does not include a keyboard. The disk drive has a substantially larger capacity than the data storage cards. A user loads data onto a data storage card using a portable electronic device (116), such as a digital camera. The user then inserts the card into the storage device and uploads the data to the disk drive.

WO 01/86640 A3



(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
28 March 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/14782

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H04N 5/76, 7/00, 5/988 US CL : 348/559, 351, 359, 363, 333.01, 379, 375, 376 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 348/559, 351, 359, 363, 333.01, 379, 375, 376 Documentation searched other than minimum documentation to the extent that such documents are included in the field searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST search terms: downloadss, uploadss, handheld, portable, storage, mobile assistant, digital wallet, camera		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim
X — Y	Back to Magazine, (BOND) MGVision's Digital Wallet article, 22 July 1998, p. 1-9.	1-54 26,37,45-47
Y	US 5,477,264 A (SARBADHIKARI et al) 19 December 1995, entire document.	45-47
Y	US 5,856,930 A (HOSONO) 05 January 1999, entire document.	47-50, 53, 54
Y	US 5,796,428 A (MATSUMOTO et al) 18 August 1998, entire document.	26, 37, 45, 47 50, 53, 54
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principles or theory underlying the invention
"E"	earlier documents published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special cases (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other cited documents, such combinations being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"A" document's number of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	
Date of the actual completion of the international search 25 SEPTEMBER 2001		Date of mailing of the international search report 13 DEC 2001
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-5930		Authorized officer JACQUELINE WILSON Telephone No. (703) 305-5930

Form PCT/ISA/910 (second sheet) (July 1998)